

Environmental Protection Agency

§ 86.1526-84

Interference gas	Concentration	Applicable analyzer
CO ₂	14 percent	CO
C ₃ H ₈	1 percent	CO
H ₂ O	Saturated vapor at 100° F	CO
NO _x	1,000 ppm	CO
O ₂	5 percent	CO

(8) The analyzer shall be able to meet the specifications in paragraph (a) of this section under the following conditions:

- (i) After a 30 minute warm-up from the prevailing ambient conditions;
- (ii) Between 0 to 85 percent relative humidity; and
- (iii) During variations of ± 50 percent of nominal sample flow.

(b) The inclusion of a raw CO₂ analyzer as specified in § 86.309-79 and § 86.316-79 is required in order to accurately determine the CVS dilution factor.

[48 FR 52252, Nov. 16, 1983, as amended at 60 FR 34377, June 30, 1995]

§ 86.1513-90 Fuel specifications.

The requirements of this section are set forth in § 86.1313-90(a) for heavy-duty engines, and in § 86.113-90(a) for light-duty trucks.

[53 FR 478, Jan. 7, 1988]

§ 86.1513-94 Fuel specifications.

The requirements of this section are set forth in § 86.1313-94 for heavy-duty engines and in § 86.113-94 for light-duty trucks.

[59 FR 48536, Sept. 21, 1994]

§ 86.1514-84 Analytical gases.

(a) The final idle emission test results shall be reported as percent for carbon monoxide on a dry basis.

(b) If the raw CO sampling system in § 86.309-79 is used, the analytical gases specified in § 86.308-79 shall be used.

(c) If a CVS sampling system is used, the analytical gases specified in § 86.1314 shall be used.

[48 FR 52252, Nov. 16, 1983, as amended at 51 FR 24613, July 7, 1986; 60 FR 34377, June 30, 1995]

§ 86.1516-84 Calibration; frequency and overview.

(a) Calibrations shall be performed as specified in §§ 86.1518-84 through 86.1526-84.

(b) At least monthly or after any maintenance which could alter calibration, check the calibration of the CO analyzer. Adjust or repair the analyzer as necessary.

(c) Water traps, filters, or conditioning columns should be checked before each test.

§ 86.1519-84 CVS calibration.

If the CVS system is used for sampling during the idle emission test, the calibration instructions are specified in § 86.1319-84 for heavy-duty engines, and § 86.119-78 for light-duty trucks.

§ 86.1522-84 Carbon monoxide analyzer calibration.

(a) *Initial check.* (1) Follow good engineering practice for instrument start-up and operation. Adjust the analyzer to optimize performance on the range specified in § 86.1511-84(a)(1).

(2) Calibrate the analyzer with the calibration gas specified in § 86.1514-84.

(3) Adjust the electrical span network such that the electrical span point is correct when the analyzer reads the calibration gas correctly.

(4) Determine that the analyzer complies with the specifications in § 86.1511-84.

(b) *Periodic check.* Follow paragraphs (a) (1), (2), and (3) of this section as specified by § 86.1516-84(b). Adjust or repair the analyzer as necessary.

§ 86.1524-84 Carbon dioxide analyzer calibration.

(a) The calibration requirements for the dilute-sample CO₂ analyzer are specified in § 86.1324-84 for heavy-duty engines and § 86.124-78 for light-duty trucks.

(b) The calibration requirements for the raw CO₂ analyzer are specified in § 86.330-79.

§ 86.1526-84 Calibration of other equipment.

Other test equipment used for testing shall be calibrated as often as necessary according to good engineering practice.